

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/075,931	02/14/2002	Kenji Furuya	70460	1696	
75	90 09:05/2003				
McGLEW AND TUTTLE P.C.			EXAMINER		
SCARBOROUG SCARBOROUG	GH STATION GH, NY 10510-0827		LE, DANG D		
			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 09/05/2003	DATE MAILED: 09/05/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner	•		Application No.	Applicant(s)				
Dang D Le 2834  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the powsions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after ISIX (6) MONTHS from the mailing date of the communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply specified above the maximum statutory period will apply and will expire 31X (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will. by statute, cause the application to become ABANDONED (35 U S.C. § 133).  - Any reply received by the office later than there months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) □ Responsive to communication(s) filled on 30 June 2003.  2a) □ This action is FINAL.  2b) □ This action is non-final.  3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-4 and 7-15 is/are pending in the application.  - Applicant may is/are objected to.  - B) □ Claim(s) 1-4 is/are rejected.  - T) □ The proposed			10/075,931					
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12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120	riority und	der 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)☐ All b)☐ Some * c)☐ None of:	a) <u></u>	All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.	1.[							
2. Certified copies of the priority documents have been received in Application No	2.[							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>	-	application from the International Bur	eau (PCT Rule 17.2(a)).	•				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received.  15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)			. , , , , , , , , , , , , , , , , , , ,	· - · · · - · ·				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	) D Notice of	of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal F					

#### **DETAILED ACTION**

#### Response to Arguments

1. Applicant's arguments filed 6/30/03 have been fully considered but they are not persuasive. The applicant's arguments are on the ground that Zimmerman does not show welding.

It is noted that in column 2, lines 17-20, Zimmerman shows that the welding may be done for the components 8 and 5.

As a result, the rejection of claims 1-4 is still deemed proper and repeated hereinafter.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Zimmerman.

Regarding claim 1, Zimmerman shows all of the limitations of the claimed invention with each of the commutator leg part (11) having a flat structure (although non-straight) is formed separately from the corresponding commutator segment (1), and the commutator leg part (11) is fixed by welding.

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Regarding claim 2, it is noted that Zimmerman also shows all of the limitations of the claimed invention.

#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zimmerman in view of Katagiri et al.

Regarding claims 3 and 4, Zimmerman shows all of the limitations of the claimed invention except for a disk-shaped varistor having a hole at its center is mounted over the base portions of said commutator leg parts the reverse side to the winding in an axial direction of on a shaft, and each electrode of the varistor is soldered onto the corresponding base portion.

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Katagiri et al. show a disk-shaped varistor having a hole at its center mounted over the base portions of said commutator leg parts the reverse side to the winding in an axial direction of on a shaft, and each electrode of the varistor is soldered onto the corresponding base portion for the purpose of reducing spark.

Since Zimmerman and Katagiri et al. are all from the same field of endeavor; the purpose disclosed by one inventor would have been recognized in the pertinent art of the others.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to include a varistor as taught by Katagiri et al. for the purpose discussed above.

### Allowable Subject Matter

- 7. Claims 7-15 are allowed.
- 8. The following is a statement of reasons for the indication of allowable subject matter: the record of prior art does not show a commutator for a rotor of a motor, the commutator comprising plurality of commutator segments arranged to have the segment surfaces form a cylindrical shape and the commutator legs each formed separately from said commutator segments and welded to the segment surfaces and extending outward from a respective said segment surface radial direction of said cylindrical shape shown in claim 7.

#### Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

#### Information on How to Contact USPTO

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dang D Le whose telephone number is (703) 305-0156. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

DANG LE
PRIMARY EXAMINER

9/2/03